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(54) Title: GENETICALLY MODIFIED PLANTS AND THEIR APPLICATIONS IN PHYTOREMEDIATION.

(57) Abstract: Genetically modified plants able to accumulate heavy metals in shoots and methods of removing and possibly re-  
covering said heavy metals, using said genetically modified plants. Said genetically modified plants include more than one copy of  
at least a sequence encoding a P<sub>1B</sub>-type ATPase of the Zn<sup>2+</sup>/Co<sup>2+</sup>/Cd<sup>2+</sup>/Pb<sup>2+</sup> subclass and that they overexpress said P<sub>1B</sub>-type ATPase.

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